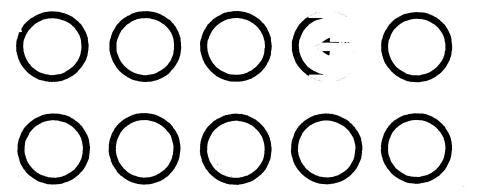
# RESEARCH ABSTRACTS





RESEARCH CELL
ASSOCIATION OF INDIAN UNIVERSITIES
NEW DELHI

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#### PREFACE

The Examination Research Cell (ERC) of the Association of Indian Universities has been from time to time investigating into various fundamental issues of university examinations like Grading. Test and Item Analysis, Practical Examinations, Continuous Internal Assessment to mention only a few. Results of these research projects have already been reported in the form of Monographs, some of which have been revised in subsequent editions to include experiences of teachers/colleges/universities.

At the same time, a few research studies have been conducted and it was felt that a series of Research Abstracts should be brought out incorporating the results of such studies. The present Research Abstract is fourth in the series and it is exclusively to report the Examination result of test and iter analysis of a test given by National Academy of Medical Sciences in their MNAMS Part I Examinations. What is reported here is an analysis of an objective type test of 150 items taken by 221 candidates.

A very comprehensive computer programme has been used to mark the scripts, to perform statistical analysis of the test and of various items and is also included in this Research Abstract.

It is hoped that teachers, examiners and other examining bodies will find this Research Abstract useful.

Constructive suggestions will be most welcome.

New Delhi 10th November, 1981

V. Natarajan

## ACKNOWLEDGEMENTS

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A special word of thanks is given to the National Academy of Medical Sciences & National Board of Examination, who supplied data for analysis and to Computronics India for processing the data through their computer.

A COMPREHENSIVE STATISTICAL ANALYSIS OF A SAMPLE OBJECTIVE TYPE TEST.

## USE OF OBJECTIVE TESTS

## INTRODUCTION

Objective type tests in our country are increasingly being used to serve different purposes in different situations. A beginning of it was seen in class room tests by several teachers with the main purpose of checking learning and diagnosing the weaknesses of it. Soon its use has been extended as a part of summative evaluation to check on the levels of achievement at the end of a course of study. Very recently we have seen objective type tests being used in admission and selection type tests.

While the attempts to use objective forms of assessment, have not taken roots yet, many achievement tests purely of objective forms are used particularly by organisations wanting to select a few among the many achievers of the previous qualifying courses.

In the present context therefore, this objective type test used by the National Academy of Nedical Sciences for their Part-I, NNAM'S examination, is a test of attainment or proficiency in the subject of medicine, being acquired by the candidates in their previous qualifying courses. Of course the content and the intellectual abilities and skills associated with this content were all sorted out by a group of experienced and expert item writers, before assembling a collection of nearly thousand multiple-choice type items at the end of a 2 week long workshop to produce such items. One hundred and fifty of these were selected on the basis of the table of specifications and put into this test.

This test therefore deals with a certain body of contents and related intellectual abilities involved in this. The main purpose of this test is to discriminate between the more able and less able candidates on the basis of performance in the test. It is therefore imperative that the items used in the test should have a high degree of discrimination.

There are two aspects of the whole test that need to be elaborated. One of these is the "validity" of the test. By this it is meant that the items used in the test measure the identified abilities in different areas of content in a balanced manner. This is done through a table of specifications or a blue print that specifies weightages to different areas of content and also weightages to different abilities. This largely accounts for the content validity of the test. The second of these is "reliability". By this, it is meant that the test measures consistently whatever it measures. In other words, the reliability of the test is its ability to produce more or less the same score for the same individual candidate. No test is known to have a hundred percent reliability. The coefficient of reliability is estimated by different methods. Usually the most probable value of reliability can be estimated out of all these.

# Some criteria used for the Construction and Administration of this objective test: Arrangement of items:

One method is to arrange the items in order of difficulty, usually the difficulty increases (i. e. Facility Value/F. V. decreases) as the test proceeds. It would probably be better to form groups of items, each group containing items of approximately equal facility, rather than to try to arrange them in a fine gradation of facility from start to finish. It is a common practice to put one or two easy items at the beginning of a test on the psychological grounds that they will give candidates confidence and putthem at ease. It is sometimes arranged according to some other method and let facility take care of itself.

A more common and defensible practice is to arrange items in groups corresponding to some acceptable classification of subject matter. Another criterion is that items should be grouped according to their types, if there is more than one type of item used within the test. This way all multiple choice items would be grouped together, all multiple completion would be in another group, and so on. In a mixed objective type test, this grouping by item type is essential or it becomes confusing for a student to move at random from one type of item to another. While considering the arrangement of items one should keep an eye on the sequence of keys, that is, the letters which denote the correct response. It is usually thought to be undesirable to have a prolonged run of identical keys such as a long sequence of 'A's or even a set pattern of responses to get repeated over the items.

#### Lay-Out of the Test :

Clarity of lay-out is important. It is easy enough for a student to become confused when dealing with a single complex item. It is possible to arrange items in a double column on each side of the paper but only if the items themselves are short and simple. Even then, the order and numbering of the items should be logical and consistent.

#### Recording the Responses

There are various ways in which the responses of the candidates can be recorded. In large scale examining the use of some form of answer (respons sheet) is preferred. This answer sheet may either be given separately or be detached from the testbooklet. There are three main types of answer-sheet outlined briefly below but in all the three the use of a soft lead pencil is advocated because it facilitates correction if a candidate should have a change of mind.

i) The first type of answer sheet requires to write the letter

or number corresponding to the chosen response to each item. for example:

Bla	nk Ansv	ver	Sheet	Con	pleted	Ans	wer Sheet
1.	$\Box$	2.		1.	<u>B</u> 7	2.	<b>D</b> 7
3.		4.		3.	<b>_A</b> 7	4.	<b>∠</b> C

ii) In the second type of answer sheet the candidate marks usually by a circle, or a cross or a tick, the letter or number corresponding to the chosen response. For example:

Bla	nk .	Ang	wer	Sheet	Completed Answer	Sheet
1.	A	В	С	D	1. (A) B C D	
2.	A	В	C	D	2. A B C D	
3.	A	В	C	D	3. A B C D	

Iti) The third type is used mainly when tests are marked by machine. It requires candidates to fill in completely a small lettered or numbered space by means of a pencil mark. When fed through a scoring machine (Scanner), which can detect the positions of the pencil marks and which is programmed to distinguish between correct and incorrect scores, each answer-sheet is automatically scored. For example:

	Bla	Blank Answer Sheet				Completed Answer Sheet				ŧ
	A	В	C	D		A	В	C	D	
1.	0	0	0	0	1.	0	•	0	0	
2.	0	0	0	0	2.	О	0	0	•	
3.	0	0	o	O	3.	•	О	0	0	

The response pattern shown in (iii) has been used in this test.

?

#### Items Analysis:

Every item in a test should contribute something to the assessment one is trying to make. In order to see that every item does indeed carry part of the load, some statistical analysis is necessary. Analysis of test items not only helps us to identify poor items, but also decide why an item is not functioning as it was planned to do. The objective type items have an advantage over most other forms of questions that their performance under operational conditions can be quantitatively analysed and evaluated after they have been used.

Item analysis yields three indices that can be calculated for every individual item. These are:

- A) Facility Value (or Difficulty Value)
- B) Discrimination Index (or Discriminating power)
- C) Effectiveness of Distractors

## A) Facility Value (or Difficulty Value) :

The facility value of an item indicates how easy or difficult it proved to be and it is determined by calculating the percentage of candidates who answered it correctly. It is usually shown as a percentage and rarely as a decimal fraction.

Total number of candidates who attempted the item

(N) = 90

Number of correct responses to the item (R) = 63

Facility of this item (FV) = Numi

Number of candidates answering the item correctly

Total Number who attempted this item.

- i) if calculated in Percentage, FV=  $\frac{R}{N}$  x 100 FV=  $\frac{63}{90}$  x 100 = 70%
- ii) if calculated in decimal fraction, FV=  $\frac{R}{N}$ FV =  $\frac{-63}{91}$  = 0.70

In actual practice, a range of difficulty is allowed, e.g. between 40 and 80 percent for four option multiple choice items and 55 and 85 percent for true/false items. These limits are admittedly arbitrary and are provided only as general guidelines. If tests are used to produce a rank order, every item in the test must have a certain amount of facility. An item which is either answered correctly or incorrectly by all does not serve any useful purpose. In one case the Item in too easy while it is too difficult in the other. Therefore, it is advisable to avoid both the very difficult and the very easy items.

## B) Discrimination Index (or Discriminating Power)

This statistic shows the degree to which a particular item

discriminates between the higher ability and lower ability candidates. For convenience ability is here defined in terms of how well students do the test as a whole. If a particular item is to contribute to the discriminatory function of the whole test, the higher ability candidates should obtain a greater proportion of correct responses than the lower ability candidates. There are several ways in which it can be quantified. However, a simple procedure to calculate the D.I. value is given below:

- 1. Arrange the students in rank order according to their scores on the test as a whole.
- 2. One third of answer scripts at the top and the one third at the bottom are to be separated. (Very often the top 27% of total number of students and the bottom 27% of total number of students are taken for purposes of accuracy of results)
- For each item count the number of correct responses (N,,) 3. obtained by the top third and count the number of correct responses (N<sub>1</sub>) obtained by the bottom third. If 27% is adopted, count the number of correct responses obtained by the top 27%  $(N_H)$  and also count the number of correct responses obtained by the bottom 27%.
- 4. Count the number (n) of students constituting one third of all the students who took the test. (or number of students in 27%)
- Calculate the discrimination of the item (DI) with the help 5. of the following formula;

$$D.I. = \frac{N_{H} - N_{L}}{n}$$

#### For example:

n = 30 (one third of all students) 
$$N_{H} = 27 \text{ i.e. } 27 \text{ out of } 30 \text{ answered correctly}$$
 
$$N_{L} = 15 \text{ i.e. } 15 \text{ out of } 30 \text{ answered correctly}$$
 
$$D.I. = \frac{27 \cdot 15}{30} = \frac{12}{30} =: 0.40$$
 if top and bottom 27% are adopted, we get Johnson's upper-lower

index of D.I.

It follows that if an item is to contribute to the total discriminatory power of the test,  $N_H$  must be greater than  $N_L$  and, therefore, DI must be positive. The two extremes would be:

i) n = 30, 
$$N_H = 30$$
,  $N_L = O$   
therefore DI =  $\frac{30 - 0}{30} = + 1$ 

(i) n = 36, N<sub>H</sub> = 0, N<sub>L</sub> = 36  
therefore DI = 
$$\frac{O - 36}{30}$$
 = -1

iii) n = 30, N<sub>H</sub> = 20, N<sub>L</sub> = 20  
therefore DI = 
$$\frac{20 - 20}{30}$$
 = O

An explanation for each of the three above mentioned cases is given below:

- In this case the item is discriminating positively between the higher ability and the lower ability candidates and is making maximum contribution.
- ii) In this case the item is also discriminating totally but in the opposite direction; that is the higher ability candidates on the test as a whole are answering incorrectly and vice-versa.
- iii) In this case, the item is making no distinction between the higher ability and lower ability candidates; it is having neither a positive nor a negative effect on the discriminating power of the whole test.

With a view to make a thorough study of an objective type test on the lines mentioned above, a test with 150 items was tried out on a sample of 221 medical candidates. The details of the nature of the test and its analysis are given below:

# Test Analysis

Subject Matter and Medicine and Allied Sciences
Nature of the test: MNAMS (Primary Paper-I)

Objective Test

Number of candidates: 221

Number of Items: 150

Maximum Marks: 150

Time: 3.00 Hours

## About the Test:

This is an objective type test. It consists of 150 items which are divided into three sections namely Section-'A', 'B' and 'C'.

## Section - 'A'

This section contains seventy five items. Each item is of multiple-choice type and has got four suggested answers. Every item has one and only one predetermined correct answer.

## Section - 'B'

This section contains forty eight items of multiple true-false type. The candidates were asked to indicate for each item whether the statement of the item is true or false.

#### Section - 'C'

This section contains twenty seven items. There are two statements given in each item. The first statement is in the form of an assertion while the second is in the form of a reason. The candidates were asked to choose the correct response indicating either 'A' or 'B' or 'C' or 'D' or 'E'. The candidates were given the following instructions:

- use 'A' if assertion is true, reason is true and reason is a correct explanation.
- use 'B' if assertion is true, reason is true but reason is not a correct explanation of assertion.
- iii) use 'C' if assertion is true, reason is false.
- iv) use 'D' if assertion is false, reason is true.
- v) use 'E' if both assertion and reason are false.

With all these instructions the candidates were asked to shade the circle below the appropriate response on the answer-sheet.

## Sample

The students who appeared for the part-I, MNAMS examination, were selected for studying the efficacy of the test and the efficiency of its items. A total population of 221 candidates was found suitable for the study.

#### Administration

An objective type test with 150 items was administered to a sample of 221 candidates. They were given 3.00 hours to complete the test. The candidates were asked to attempt all the 150 items of the test. The candidates were further told not to write anything on the testbooklet. Separate answer-sheets were provided to every candidate which were collected from them after the allotted time.

# Scoring:

All the 221 answer-scripts were manually scored with the help of a scoring key especially designed for the test items. Each item was given 1 mark if it was correctly answered and zero mark if it was wrongly answered. In this manner all the 150 items were scored and their marks were tabulated for further analysis.

#### Data Analysis

The data were analysed with the help of various statistical techniques. Different values like mean, mode, median, standard deviation, variance and standard error of the mean were calculated. The reliability of the test by various methods was calculated. The data were also analysed with the help of analysis of variance technique to provide estimates of components of variation and to make valid conclusions. Derived scores in respect of Z-scores, T-scores, AGCT, CEEB scores and percentile ranks were also worked out for all the candidates in order to derive comparable scales. Items were also analysed to find out their facility and discrimination indices.

#### Interpretation of the Results:

The results of the test are interpreted in the following sequence:

#### 1) Mean, Mode, Median and Standard Deviation

The scores obtained by the candidates are first of all arranged in an order (see table 1.0) to calculate some desired values.

The range of the marks secured by the candidates in this test is found to be between 46 and 111. The minimum marks obtained by the candidates are 46 and the marks 111. The mean value of the test is 78.9 It is seen from the range of the marks that a few candidates say only 9.5 percent of the total population, have secured 100 and more than 100 out of 150 marks. Half of the candidates have secured less than 51 percent marks on the test. The median of the test which indicates the middle candidate's score on the test is 77. It signifies that 77 is that point on the scale of measurement above which are exactly half the cases and below which are the other half and it seems of course very true if we look at the marks of the candidates. The mode of the test which indicates the maximum frequency in a distribution in this case happens to be exactly

similar to the median value. As many as nine candidates have secured 77 marks out of 150. The standard deviation of the test is 15. It indicates that a majority of the candidates have secured their marks in the range of 64 to 94 and this happens to be true. As many as 65 percent of the cases are found within this range. Only 19 percent of cases are found above and 16 percent of the cases are found below this range. It also signifies that the marks obtained by the candidates are mormally distributed. The standard error of the mean of the test is 1.015 which indicates that the limits of marks within which the arithmatic mean will lie if we are to give this test over and over again would be only 1.015 or it signifies that the limit of tolerance of mean is 1.015. All these values are given in Table 1.1.

<u>Table - 1.0</u> Frequency distribution of Marks<sup>+</sup>

S. No .	<u>Mark</u> s	Frequency	Cum Freq.
1	46.00	2.00	2.00
2	50.00	1.00	3.00
3	51.00	4.00	7.00
4	53.00	4.00	11.00
5	54 00	2.00	13.00
6	55.00	2 00	15.00
7	56.00	2.00	17.00
8	57.00	1.00	18.00
9	58.00	2.00	20.00
10	59.00	3.00	23.00
11	60.00	4.00	27.00
12	61.00	3.00	30.00
13	62.00	1.00	31.00
14	63.00	3.00	34.00
15	64.00	4.00	38.00
16	65.00	5.00	43.00
17	66.00	8,00	51.00
18	67.00	5.00	56.00
19	68.00	6.00	62.00
20	69.00	4.00	66.00
21	70.00	6.00	72.00
22	71.00	6.00	78.00
23	72.00	5.00	83.00
.24	73.00	1.00	84.00
25	74.00	6.00	90.00
26	75.00	7.00	97.00
27	76.00	6.00	103.00
28	77.00	9.00	112.00
29	78.00	4.00	116.00
30	79.00	2.00	118.00
31	80.00	2.00	120.00
32	81.00	3.00	123.00

S. No	Marks	Frequency	Cum Freq
33	82.00	4.00	127.00
34	83.00	5.00	132.00
35	84.00	3.00	135.00
36	85.00	6.00	141.00
37	86.00	5.00	146.00
38	87.00	8.00	154.00
39	88.00	6.00	160.00
40	89.00	4.00	164.00
41	90.00	3.00	167.00
42	91.00	2.00	169.00
43	92.00	3.00	172.00
44	94.00	7.06	179.00
45	<b>95</b> . 00	4.00	183.00
46	96.00	6.00	189.00
47	97.00	1.00	190.00
48.	98.00	3.00	193.00
49	99.00	7.00	200.00
50	100.00	4.00	204.00
51	101.00	1.00	205.00
52	102.00	2.60	207.00
53	103.00	3.00	210.00
54	104.00	3.00	213,00
55	105.00	1.00	214.06
56	106.00	4.00	218.00
57	110.00	2.00	220.00
58	111.00	1.00	221.00

<sup>+</sup>Output from computer

Table of some desired statistics+

	Table-1.1
Mean of Score	78. 9005
Median of Score	77.0000
Mode of Score	77.0000
Variance of Score	226.923
Standard Deviation	15.0640
S. D. by Dietrich Method	14.8288
Standard Error of the Mea	n 1.0156

<sup>+</sup>Output from computer

#### Percentile Ranking

A candidate's percentile rank describes his relative standing within a specified group. A percentile is one of the ninety-nine points dividing a frequency distribution into one hundred groups of equal size. The scores which serve to identify a person's status within a specified group may be expressed in a variety of forms. One convenient way of indicating the level of an individual's performance is to quote his percentile rank. This tells us what percentage of the group performed at a lower level. Thus if we compare an individual's mark with those obtained by the group as a whole, and find that when their marks are arranged in rank order he is exactly half way down the list, he would be said to be at the 50th percentile. In other words fifty percent of the group were below him in the list. If he faired better than 90 percent of the group he would have a percentile rank of 90 and so on.

It is clear that this is a much more meaningful representation of an individual's performance than his total mark or percentage mark in an examination. Table 1.1a shows the percentile rank calculations of all the 221 candidates.

Table 1. 1a showing percentile rank calculation

S. No.	Marks(x)	Frequency(f)	Cumulative Freq. (Cf)	Cumulative Freq. mid- point (Cfm)	Cumulative Percentage of mid point (P.
1	111	1	22:	220.50	99. 77
2	110	2	220	219.00	99, 09
3	106	4	218	216.00	97.73
4	105	1	214	213.50	96.38
5	104	3	213	211.50	95. 70
6	103	3	210	208.50	94.34
7	1 <b>02</b>	2	207	206.00	93.21
8	101	1	205	204.50	92.53
9	100	4	204	202.00	91.40
10	99	7	200	196.50	88:91
11	98	3	193	191.50	86.65
12	97	1	190	189.00	85.74
13	96	6	189	186.00	84.16
14	95	4	183	181.00	81.90
15	94	7	179	175. 50	79.41
16	92	3	172	170,50	77.14
17	91	2	169	168.00	76.01
18	90	3	167	165.50	74.88
19	89	4	164	162.00	73.30
20	88	6	160	157.00	71. 0 <del>4</del>

R.

21	87	8	154	150.00	67.87
22	86	5	146	143.50	64.93
23	85	6	141	138.00	62.44
24	84	3	135	133.50	60.40
25	63	5	132	129.50	58.59
26	82	4	127	125.00	56.56
27	61	3	123	121.50	54.97
26	80	2	120	119.00	53.84
29	79	2	118	117.00	<b>52.94</b>
36	78	4	116	114.00	51.58
31	77	9	112	107.50	48.64
32	76	6	103	100.00	45.24
33	75	7	097	93.50	42.30
34	74	6	090	87.00	39.36
35	73	1	084	<b>83.50</b>	37.78
36	72	5	063	80.50	36.42
31	71	6	076	75.00	33.93
3 <b>b</b>	70	6	072	69.00	31.22
39	69	4	066	64.00	2 ხ. 95
40	66	6	062	59.00	26.69
41	67	5	056	53.50	24.20
42	66	ь	051	47.00	21.26
43	65	3	043	40.50	16.32
44	64	4	03 ხ	36.00	16.25
45	63	5	034	32.50	14.70
46	62	1	031	30.56	13.80
47	61	3	030	28.50	12. 59
40	60	4	027	25.00	11.31
49	59	3	023	21.50	9.71
50	56	2	020	19.00	<b>b.</b> 59
5 !	57	1	010	17.50	7.91
52	5€	2	017	16.00	7.23
53	5€	2	015	14.00	6.33
54	54	2	013	12.00	5.42
55	53	4	011	9.00	4.07
56	51	4	007	5.00	2.26
57	50	1	003	2.50	1.13
58	46	2	002	1.00	0.45

# Reliability of the Test

The reliability of the test calculated by various methods is given below:

# A. Solit Halves Reliability

In this method the test of 150 items is split into two halves namely:

i) a test of odd numbered items and a test of even numbered items.

Marks obtained by candidates in odd numbered item test and even numbered item test are all found out. Product moment correlation is worked out to give the split halves reliability.

- ii) another way of making two tests out of one is to take any random 75 items and constitute into a test while the rest will be made into another. Candidate's marks on these two tests are found and product moment correlation found out.
- iii) yet another way to have two halves of the same 150 items is to take the first 75 items as a test and last 75 as another. Candidates' marks on these first 75 and last 75 items are found and correlated.

Thus, all the 150 test items are divided into two halves by the three above mentioned methods and then the reliability by various methods is calculated. The different values are given in Table 1.2.

It is seen from Table 1.2 that the reliability of the test calculated by various methods is fairly high. In most of the cases, the reliability of the test is greater than 0.85 or approximately 0.89 which is of course a very high value for a test of this type. It further signifies that the test items are nearly equal in difficulty and hence the reliability of the test is quite high.

Table-1.2
Reliability of the Test<sup>+</sup>

	Split halves reliability	Spearman Brown whol test reliabi- lity	Rulon Formula le of reliability -	Flanagan Formula of reliability
Odd even split	C. 8080	0.8938	0.8907	0.8907
Random half split	0.5878	0.7404	0.7310	0.7310
First-second half	0.7740	0.8726	0.8719	0.8720
Della kilika ka Malaan	short cut metho	ď	= 0.8080	
Reliability by KR-20			= 0.8753	
	formula		= 0.8753 = 0.9284	
Reliability by KR-20	formula i on 27% HAG an			
Reliability by KR-20 KR-I 20 form. Based	formula i on 27% HAG an -20 formula		= 0.9284	

Lower bound estimate of exam. reliability	= 0.9079
Stanley Approximation	= 6.8809
Index of Measurement efficiency	= 0.8942
Reliability by Analysis of Variance	= 0.8753
Tucker Modified KR form.	= 0.8753

<sup>+</sup> Output from Computer

# Analysis of Variance

The data were also analysed with the help of analysis of variance technique. for which the following hypotheses were developed:

## Development of Hypotheses

In order to study the individual's marks on the test items and also to study the effect of test items on the individual candidates the following null hypotheses were formulated.

- HO The individual candidates will not vary significantly on the test items.
- $^{
  m HO}_2$  The test items will not have any significant difference on the individuals' scores.

In order to test the hypotheses developed earlier, the analysis of variance technique was used to provide estimates of components of variation and to make valid conclusions. The summary of the complete analysis of variance is given in Table 1.3.

Table 1.3

Analysis of Variance

Source of Variation	Sum of Squares	Degrees of Freedom	Mean Squares Error	Variance Ratio
Examinees	334.3359	220	1.5197	8.0177+
Items	1717. 5039	149	11.5269	60.8139 <sup>+</sup>
Remainder	6213.2344	32780	0.1895	

<sup>+</sup> Significant at .05 and also at .01 level.

## Analysis of Variance

To study the effect of individual student on the test items and also the effect of test items on individuals' scores, the data were analysed with the help of analysis of variance technique. The hypotheses which were formulated earlier were tested on the basis of the 'F' - values given in Table-1.3.

# Hypothesis - I

 $$\operatorname{Tnis}$$  hypothesis states that the individual candidates will not vary significantly on the test items.

It is seen from Table 1.3 that the calculated value of 'F' in relation to examinees is greater (F = 8.6177) than the tabulated value, therefore, the null hypothesis is rejected. It means that the individual candidates differ significantly on the test items. The 'F' ratio for examinees is significant beyond the .01 point, leaving us with considerable confidence that the examinees difference, as such, have a real bearing upon the difficulty of the items of the test.

#### Hypothesis - II

This hypothesis states that the test items will not have any significant difference on the individuals' scores.

It is seen from Table 1.3 that the calculated value of 'F' in relation to items is greater (F=60.8139) than the tabulated value, therefore, the null hypothesis is rejected. It indicates that the test items have a significant difference on the individuals' scores. The F-ratio for items is significant beyond the .01 point, leaving us with considerable confidence that the items, as such, have a real bearing upon the individuals' scores.

# Item Analysis

# Facility Value(F. V.)

The facility value of an item indicates how easy or difficult it proved to be and is determined by calculating the percentage of candidates who answered it correctly. Usually the facility

value of an objective type test item must range from 20% to 85%. The various standards suggested to check the facility value of an objective type item are given below:

# At trial test stage

0 to 25% F.V. item is too hard (modify, check distractors) 25% to 75% F.V. item of correct facility 75% to 100% F.V. Item is very easy (reword, reject, check for clues)

#### After trial but in actual use

0 to 25% topic not taught well/not learnt well (check teaching learning technique)

25% to 75% topic reasonably taught well/learnt well

75% to 100% exceptionally good knowledge of topic

## 2. Discrimination Index (D.I.)

Tals is an important item analysis characteristic for an objective type test item. The quality of an item in distinguishing between higher ability and lower ability candidates is technically called discrimination. The statistics showing discrimination value is called discrimination index. These indices range from - 1.0 to +1.0. A good quality item should discriminate between candidates who have achleved well and those who have not. The main purpose of discrimination index is to tell us if an item really is showing differences between more capable caudidates and less capable candidates. The various standards suggested to check the discrimination index of an objective type item are given below:

0.6 and above: excellent items

0.2 to 0.6: very good items

0 to 0.2: needs improvement

←0 to be discarded

Items with negative DI should be rejected.

The F.V. and D.I. for all the 150 items administered to a sample of 221 candidates were calculated, summarised and given in Table 3.0. The F.V. and D.I. values for individual items are separately given.

Qn. % choosing				Discrimination	Variance	
No.	Question	Index	Value	Index		
94	100.0000	78.4208	0. 9831	0.033898	0.008968	
95	100.0000	72.2127	0.8559	0.220339	0.089638	
96	100.0000	74.9050	0.9746	-0.016949	0.047296	
97	100.0000	72.2851	0.9068	0.186441	0.089638	
98	100.0000	51.0724	0.6271	0.203390	0.233309	
99	100.0000	59. 9050	0.7288	0.101695	0.189185	
100	100.0000	31.8552	0.3898	0.542373	0.230953	
101	100.0000	70.8959	0.8898	0.186441	0.103806	
102	100.0000	48.9321	0.5932	0.576271	0.244426	
103	100.0000	47.7466	0.5593	0.305085	0.242993	
104	100.0000	57.6968	0.6864	0.288136	0.205729	
105	100.0000	17. 5204	0.2542	0.0	0.172560	
106	100.0000	73.4887	0.9576	0.050847	0.067157	
107	100.0000	50. 1312	0.5932	0.508475	0.240536	
801	100.0000	33.9140	0.4237	0. 135593	0.242993	
109	100.0000	4.3348	0.0847	-0.135593	0.059335	
[10	100.0000	62.9231	0.7966	0.372881	0.177515	
111	100.0000	12.0090	0.1864	0.067797	0.123830	
112	100.0000	47. 8235	0.5847	0.288136	0.243730	
113	100.0000	48.1584	0.6356	0.118644	0.239635	
114	100.0000	40.1584	0.5424	-0.101695	0.249872	
115	100.0000	69.0271	0.8559	0.254237	0.123830	
116	100.0000	50.4389	0.6102	0.474576	0.239635	
117	100.0000	42.3032	0.5169	0.423729	0.249954	
118	100.0000	52.6516	0.6864	0.220339	0.228374	
119	100.0000	33.3937	0.4831	0.050847	0.242993	
120	100.0000	13.0724	0.1525	0.169491	0.130177	
121	100,0000	27.3575	0.3305	0.288136	0.219652	
122	100.0000	39.8959	0.5000	0.220339	0.249872	
123	100.0000	63.7873	0.7712	0.186441	0.162159	
124	100.0000	44.0814	0.5932	0.271186	0.248152	
125	100.0000	32.5520	0.4068	0.305085	0.237710	
126	100.0000	18.8461	0.2288	0.288136	0.170021	
127	100.0000	22.9412	0.3136	0.457627	0.191397	
128	100.0000	27.4027	6.3136	0.389830	6.216416	
129	100.0000	31.6199	0.4407	0.101695	0.242993	
30	100.0000	37.6832	0.5169	0.118644	0.248848	
131	100.0000	20.0181	0.2203	0.033898	0.186933	
132	100.0000	36.0633	0.3983	0.423729	0.244426	
133	100.0000	33.1674	0.3729	0.203390	0.240536	
134	100.0000	14.4118	0.1441	0.016949	0.148236	
135	100.0000	15.0045	0.1610	0.152542	0.148236	
136	100.0000	13.8462	0.1610	0.118644	0.139391	

Qn. Na.	% choosing Question	Mean Ability Index	Facility Value	Discrimination	Variance
			·		
137	100.0000	30.0090	0.4068	0.372881	0.228374
138	100.0000	42.5565	0.4915	0.474576	0.249954
139	100.0000	24.9955	0.2797	0.322034	0.207612
140	100.0000	16.9231	0.2373	0. 135593	0.162159
141	100.0000	32.6244	0.4068	0.338983	0.236686
142	100,0000	33.7104	0.3898	B.305085	0.241396
143	100.0000	34. 5475	0.3814	0.457627	0.240536
144	100.0000	26.1584	0.3051	0.372881	0.209455
145	100,0000	33.8054	0.4153	0.423729	0.240536
146	100,0000	12.2217	0.1525	0. 135593	0.127024
147	100,0000	19. 9955	0.3136	0.186441	0.182306
148	100.0000	21.4977	0.2712	0.271186	0.186933
149	100.0000	25.8145	0.3220	0.271186	0.213018
150	100,0000	11.6063	0.1864	0.203390	0.114003

<sup>+</sup> Output from Computer.

If one looks at the F.V. and D.I. values of individual items which are given in Table 3.0 one finds there are a few items which need further improvement. Let us look at the F.V. and D.I. of all the items separately.

It is seen from Table 3.0 that there are twenty items in the test which nave got high facility values. It signifies that these items are easy items and they are correctly answered by a large number of candidates. Against this there are twelve items which have got the least facility values. It shows that these are hard items and they are correctly answered only by a few candidates (that is why their facility values are less). It is therefore statistically proved that the items in the test are proportionately included. It shows an ideal combination of some easy, some hard and some medium items. In fact easy and hard items which are contrary to each other have approximately an equal load on the test as a result of which there is a very good balance. Majority of the items are of medium difficulty and this is a very good sign of a well planned test. On the basis of these statistics we can precisely say that this test out of 150 items contains 12 hard, 20 easy and 118 medium items, which of course seems to be a very good combination. From the psychological point of view we must have some easy items in the test (preferably in the beginning of the test) so that the candidates get some positive reinforcement by solving them. If one does not give the easy items in the test, the candidates may get nervous. Since we have to discriminate the candidates of higher ability and lower ability which is the first and the formost purpose of the test, it is also necessary to include some hard items which could be solved only by the higher ability candidates. Apart from these two types of items i.e. hard items & easy items each test should have some items of medium difficulty.

If we look at the D.I. values of the Items given in Table 3.0, it is seen that there are twenty five Items which have got negative D.I. values. It means that these Items have failed to serve their purpose or in other words these items have failed in discriminating between the higher ability and lower ability candidates. It furtner signifies that these items are either to be rejected or modified. Apart from it there are thirty items in the test which have got less D.I. values. It does not necessarily mean that these items are not at all good items and therefore they should be rejected. They need further improvement and it would be possible either by changing the distractors of the items or by converting or remodifying the stems of the items.

As a whole, the test is extremely good and it could be further improved if a few items which have shown less F.V. and D.I. values are slightly modified.

## Derived Scores

It is necessary to convert the raw score scales into other standard scales for various reasons. One objective is to effect a more reasonable scale of measurement. Another important objective is to derive comparable scales for different tests. The raw scores from each test yield numbers that have no comparability with numbers from another test. There are many situations for

wanting not only comparable values from different tests but also values that have some standard meaning. These are the problems of test norms and test standards. It is almost certain that derived scores provide us with more nearly comparable values than do raw scores. No informed person would think of using raw scores as a basis of making direct comparisons among individual positions with respect to trait variables. Conversion of raw scores to values on some other common scale is essential. Derived scores in respect of Z.T. AGCT. CEEB are worked out for all the 221 candidates. Table 2.0 summarises the results of calculations.

- Z-scores have O for their mean and 1 for their standard deviation
- T-scores are linearly transformed Z scores with mean at 50 and S.D. at 10.
- 3. AGCT (100/20)
- 4. CEEB (College Entrance Examination Board) 500/100

Table 2.0 +

S. No	N'arks	Z-score	T-score	AGCT-score	CEEB-score
1	111	2.13	71.31	142.62	713.09
2	1-0	2.06	70.64	141.29	706.45
3	110	2.06	70.64	141.29	706.45
4	106	1 80	67.99	135.98	679.90
5	106	1.80	67.99	135.98	679.90
6	106	1,80	67.99	135.98	679.90
7	106	1.80	67.99	135.98	679.90
8	105	1. 73	67.33	1 <b>34</b> . 65	673.26
9	104	1.67	66.66	133.32	666 . 62
10	104	1.67	66.66	133.32	666.62
11	104	1.67	66.66	133.32	666. <b>62</b>
12	103	1.60	66.00	132.00	659.98
13	103	1 60	66.00	132.00	659.98
14	103	1.60	66.00	132.00	659.98
15	102	1.53	65.33	130.67	653.34
16	102	1.53	65.33	130.67	653.34
17	101	1.47	64.67	129.34	646.70
18	100	1.40	64.01	128,61	640.07
19	100	1.40	64.0	128.01	640.07
20	100	1.40	64.01	128.C1	640.67
21	100	1.40	64.01	128.01	640.07
22	99	1.33	63.34	126.69	633.43
23	99	1.33	63.34	126. 69	633.43
24	99	1. 33	63.34	126.69	633.43
25	99	1.33	63.34	126.69	633.43
26	99	1.33	63.34	126.69	633.43
27	99	1.33	63. 34	126.69	633 . 43
28	99	1.27	63.34	126.69	633.43
29	98	1.27	62.68	125.36	626.79
30	98	1.27	62.68	125.36	626 . 79
31	98	1.27	62.68	125.36	626.79
32	97	1.20	62.02	124.03	620.15
33	96	1.14	61.35	122.70	613.51
34	96	1. 14	61.35	122. 70	613.51
35	96	1.14	61.35	122. 70	613.51
36	96	1.14	61.35	122.70	613.51
3,	96	1.14	61.35	122.70	613.51
38	96	1.14	61.35	122.70	613.51
39	95	1.07	60.69	121.37	606.87
40	95	1.07	60.69	121.37	606.87
41	95	1.07	60.69	121.37	606.87
42	95	1.07	60.69	121.37	606.87
43	94	1.00	60.02	120.05	600.24
44	94	1.00	60.02	120.05	600.24
45	94	1.00	60.02	120.05	600.24

S. No	Marks	Z-score	T-score	AGCT-score	CEEB-score
46	94	1.00	60.02	120.05	600.24
47	94	1.00	60.02	120.05	600.24
48	94	1.00	60.02	120.05	600.24
49	94	1.00	60.02	120.05	600.24
50	92	0.87	58, 70	117.39	586.96
51	92	0.87	58.70	117.39	586.96
52	92	0.87	58.70	117.39	586.96
53	91	0.80	58.03	116.06	580.32
54	91	0.80	58.03	116.06	580.32
55	90	0.74	57.37	114.74	573.68
56	90	0.74	57.37	114.74	573.68
57	90	0.74	57.37	114.74	573.68
58	89	0.67	56. 70	113.41	567.04
59	89	0.67	56. 70	113.41	567.04
60	89	0.67	56.70	113.41	567.04
61	89	0.67	56.70	113.41	567.04
62	88	0.60	56.04	112.08	560.41
63	88	0.60	56.04	112.08	560.41
64	88	0.60	56.04	112.08	560.41
65	88	0.60	56.04	112.08	560.41
66	88	0.60	56.04	112.08	560.41
67	88	0.60	56.04	112.08	56 <b>0</b> : 41
68	87	0.54	55.38	110.75	553.77
69	87	0.54	55.38	110.75	553.77
70	87	0.54	55.38	110.75	553.77
71	87	0.54	55.38	110.75	553.77
72	87	0.54	55.38	110.75	553.77
73	87	0.54	55.38	110.75	553.77
74	87	0.54	55.38	110.75	553.77
75	87	0.54	55.38	110.75	553.77
76	86	0.47	54.71	10.73	547.13
77	86	0.47		109.43	547.13 547.13
78	86	0.47	54.71 54.71	109.43	547.13 547.13
79	86	0.47	54. 71	109.43	547.13
79 80	86	0.47	54. 71 54. 71	109.43	547.13 547.13
	85		54.71 54.05		
81 82	85	0.40 0.40	54: 05 54: 05	108.10 108.10	540.49 540.49
	85		54.05	108.10	
83		0.40			540.49
84	85	0.40	54.05	108.10	540.49
85 86	85	0.40	54.05	108.10	540.49
86 0 -	85	0.40	54.05	108.10	540.49
87	84	0.34	53.39	106.77	533.85
88	84	0.34	53.39	106.77	533.85
89	84	0.34	53.39	106.77	533.85
90	83	0.27	52.72	105.44	527.21
91	83	Q_27	52.72	105.44	527.21
92	83	0.27	52.72	105.44	527.21
93	83	0.27	52.72	105.44	527.21
94	83	0.27	52.72	105.44	527. <b>2</b> 1
95	82	0.21	52.06	104.12	520.58
96	82	0.21	52.06	104.12 .	520.58

S. No	Marks	Z-score	T-Score	AGCT-Score	CEEB-Score
97	82	0.21	52.06	104.12	520.58
98	82	0.21	52.06	104.12	520.58
99	81	0.14	51.39	102.79	513.94
100	81	0.14	51.39	102.79	513.94
101	81	0. 14	51.39	102.79	513.94
102	80	0.07	50.73	101.46	507.30
103	80	0.07	50.73	101.46	507.30
104	79	0.01	50.07	100.13	500.66
105	79	0.01	50.07	100.13	500.66
106	78	-0.06	49.40	98.80	494.02
107	78	-0.06	49.40	98.80	494.02
108	78	-0.06	49.40	98.80	494.02
109	78	-0.●6	49.40	98.80	494.02
110	77	-0.13	48.74	97.48	487.38
111	77	-0.13	48.74	97.48	487.38
112	77	-0.13	48.74	97.48	487.38
113	77	-0.13	48.74	97.48	487.38
114	77	-0.13	48.74	97.48	487.38
115	77	-0.13	48.74	97.48	487.38
116	77	<b>-</b> 0.13	48.74	97.48	487.38
117	77	-0.13	48.74	97.48	487.38
118	77	-0.13	48.74	97.48	487.38
119	76	-0.19	48.07	96.15	480.75
120	76	-0.19	48.07	96.15	480.75
121	76	-0.19	48.07	96.15	480.75
122	76	-0.19	48.07	96.15	480.75
123	76	-0.19	48.07	96.15	480.75
124	76	-0.19	48.07	96.15	480.75
125	75	-0.26	47.41	94.82	474.11
126	75	-0.26	47.41	94.82	474.11
127	75	-0.26	47.41	94.82	474.11
128	75	-0.26	47.41	94.82	474.11
129	75	-0.26	47.41	94.82	474.11
130	75	-0.26	47. 41	94.82	474.11
131	75	-0.26	47.41	94.82	474.11
132	74	-0.33	46.75	93.49	467.47
133	74	-0.33	46.75	93.49	467.47
134	74	-0.33	46.75	93.49	467.47
135	74	-0.33	46.75	93.49	467.47
136	74	-0.33	46.75	93.49	467.47
137	74	-0.33	46.75	93.49	467.47
138	73	-0.39	46.08	92.17	460.83
139	72	-0.46	45.42	90.84	454.19
140	72	-0.46	45.42	90.84	454.19
141	72	-0.46	45.42	90.84	454.19

8. No	Varks	Z-score	T-score	AGCT-score	CEEB-scor
142	72	-0.46	45. 42	90.84	454.19
143	72	-0.46	45. 42	90.84	454.19
144	71	-0. 52	44. 76	89. 51	447.55
145	71	-0. 52	44.76	89. 51	447.55
146	71	-0.52	44. 76	89.51	447.55
147	71	-0. 52	44.76	89. 51	447.55
148	71	-0. 52	44.76	89.51	447.55
149	71	-0.52	44.76	89.51	447.55
150	70	-0.59	44.09	88. 18	440.92
151	70	-0.59	44.09	88.18	440.92
152	70	-0.59	44.09	88.18	440.92
153	70	-0.59	44.09	88.18	440.92
154	70	-0.59	44.09	88.18	440.92
155	70	-0.59	44.09	88. 18	440.92
156	69	-0.66	43.43	86.86	434.28
157	69	-0.66	43.43	86.86	434.28
158	69	-0.66	43.43	86.86	434.28
159	69	-0.66	43.43	86.86	434.28
160	68	-0. 72	42.76	85. 53	427.64
L61	68	-0. 72	42.76	85.53	427.64
162	68	-0. 72	42. 76	85. 53	427.64
163	68	-0.72	42. 76	85.53	427.64
164	68	-0.72	42.76	85. 53	427.64
165	68	-0.72	42.76	85.53	427.64
166	67	-0.79	42.10	84.20	421.00
167	67	-0. 79	42.10	84.20	421.00
16E	67	-0.79	42.10	84.20	421.00
169	67	-0.79	42.10	84.20	421.00
170	67	-0.79	42.10	84.20	421.00
171	66	-0.86	41.44	82.87	414.36
172	66	-0.86	41.44	82.87	414.36
173	66	-0.86	41.44	82.87	414.36
174	66	-0.86	41.44	82.87	414.36
175	66	-0.86	41.44	82.87	414.36
176	66	-0.86	41.44	82.87	414.36
177	66	-0.86	41. 44	82.87	414.36
178	66	-0.86	41.44	82.87	414.36
179	65	-0.92	40.77	81. 54	407.72
180	65	-0.92	40.77	81.54	407.72
181	65	-0.92	40.77	81.54	407.72
182	65	-0.92	40.77	81. 54	407.72
183	65	-0.92	40.77	81.54	407. 72
[84	64	-0.99	40.11	80.22	401.09
185	64	-0.99	40.11	80.22	401.09
186	64	-0.99	40.11	80.22	401.09
187	64	-0.99	40.11	80.22	401.09
188	63	-1.06	39.44	78.89	394.45
189	6 <b>3</b>	-1.06	39.44	78.89	394.45
190	63	-1.06	39.44	78.89	394.45
191	62	-1.12	38.78	77. 56	387.81

S. No	Narks	Z-score	T-score	AGCT-score	CEEB-score
192	61	-1. 19	38. 12	76.23	381.17
193	61	-1.19	38.12	76.23	381.17
194	61	-1, 19	38.12	76.23	381.17
195	60	-1.25	37.45	74.91	374.53
196	60	-1.25	37.45	74.91	374.53
197	60	-1.25	37. 45	74.91	374.53
198	60	-1.25	37.45	74.91	374.53
199	59	-1.32	36.79	73.58	367.89
200	59	-1.32	36.79	73.58	367.89
201	59	-1.32	36.79	73.58	367.89
202	58	-1.39	36.13	72.25	361.26
203	58	-1.39	36.13	72.25	361.26
204	57	-1.45	35.46	70.92	354.62
205	56	-1 52	34.80	69.60	347.98
206	56	-1 52	34: 80	69.60	347.98
207	55	-1. 59	34.13	68.27	341.34
208	55	-1.59	34.13	68.27	341.34
209	54	-1.65	33.47	66.94	334.70
210	54	-1.65	33.47	66.94	334.70
211	53	-1. 72	32.81	65.61	328.06
212	53	-1.72	32.81	65.61	328.06
213	53	-1. 72	32 81	65.61	328.06
214	53	-1. 72	32.81	65.61	328.06
215	51	-1.85	31.48	62.96	314.79
216	51	-1 85	31.48	62.96	314.79
217	51	-1.85	31.48	62.96	314.79
218	51	-1.85	31.48	62.96	314.79
219	50	-1.92	30.81	61.63	308.15
220	46	-2.18	28.16	56.32	281.59
221	46	-2.18	28.16	56.32	281.59

<sup>+</sup> Output from computer

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PAGE 801

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| CM(T,1)=1,
| CM(T,1)=1,
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pri(1)=1,M
pri(1)+cm([,])

pr(m([,])-fn,2,)GnT012

pri(m([,])-fn(1)

continue

fi(1)=gr(1)-nr(1)
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FH(I)=FH(I)+(H(I,J)
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CH27(J)=0.
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IF(CM([,J),F0,1,)COTDA2
IF(CM([,J),F0,2,)GOTDOA11
WR27(J)=WR27(J)+1.
GOTDA11
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CP27(J)=CP27(J)+1,
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PAGE 0007

ORIGINAL PATA

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7		TERTITTET FEFT TERT TERTETEN Å ECO CHIOOCCEA A COFDEREN HOAD HAD CDAHACH CACD CACACOAD HIC CONTOCOCO COCOCACHO DOCOHHHAD DARRICH HOD CAONICA - ON ACCAN COFTE - TTT - FT TERTET I FT FFT
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68 DBTDCTRATHCT-CTBDTDCFBB-H8FBCTDCF4B-HDDTDCTHCF4CTN-F5HTHCTHCTHCF4C-H4TBHTD-ACTROTT-CTCSTGATOCTCCT. CFBCFAATD-TBCTCCTCCTCCTCCTTCCTCCTCTTADTCCTCTTAACTCCT HBT94T48FC9T09T09T48T **本おがおりかりまてのじー本に当りりをもりてよりでよりでもりてじり当りからましておりてこのでして一もに、も一本のにつり当じにているがありた りじがりじがりじがりじがりじがりじが別かが用じがりじがりじがりじゃけいてりひてふれた C じがえ あたりじゃりじゃりじゃりじゃりじゃじだか** 看的学者的F4C,这个世界的一点的学者也学者的学者的学者的学者的一样的产品的产品的产品的学者的学者的学者也是一个产品的学位的学术的学术的学术的 种双甲酰醇医钙钙 打印的时,在创造区域群区特殊区域的特殊区域的区域的区域的区域是有种联区域的区域,一种以一个国际设备区域的区域设计设计区域 福德拿朗特萨亚特亨利斯 心己的 心气机感明剂产用的产行机造 多多色介质 下外机厂用机厂用机厂用 计广片计算 网络埃拉尔 化双丁托及丁托及丁托及丁格特丁的作品 在月产在月产已已产在日间在日间在日本在日本在日本有日本有日本有日本有日本有日本有日本有日本在日本在日本在日本有日本有日本有日本有日本有日本 在约下的诗书一笔下在时下——中也的下在村长在一个记在下海在下面的下在在一面已经来的下面的早已写下在一下,它下去一个在在下在它一句一下也好不去一个 一锅车在面下在面下将面一点,下线在下面的下面中下线的下面线下面线下面或一点的下面或下面——在一下在线下在点下线的一面在下面看下面的—— 每约年80分下一时,我们一样的工艺与时间的工一的工具包含它与工具的严格的工程的产品在工艺的工具的工程的工程的工艺的产品在工艺的影响的影响。 のですれてすでのていて一ちもずのですあってりるものですかってものがすれるでのできられてして、ですれててのですほどでのでておんろうりなすでつず 极于精神学科《丁科特的记》: 一位于自己严持特殊一种私名式于它式和约尼亚亚特于亚约斯亚州 下面对应对应用于非可能可以原位对一人应用对它和力量等的 OFCAFADE 4 AA HOEADEDWEENTFAFEDTECTENDERTSAD HADTAA HHAFANTHDECTHCTFHAFAAFA 在巴森林在西班上,经已在外,在外巴外族自己外在一直经已上的现在分词行动,也是一个政府,对于一种自己的自己有效的是这种的主要的人,可以是一种人们的, HEBMEDCEAH DRIECTHETTRETECTEMEDC-FECELETFETACTAUTHEC---CFCCTCCTFCC-FUTBRTDCFA 9F40TH0F90 AD COTA0T40=0CF40TC0TE T=0FCCFCCTC0T40=CCF4 =4ADFC0=40TC0FCC=C 的复数古特尼尼河马,即用于在村下与在下区,下后在下区场下与行下区外一在两下区区下区场下区外下外,一定在下场在下区外下在区域里看的影响 41ECTCATC4 ERT +CTC4TCGTRCTCGTRCTCGTRCTC4TE444ATH4TFCTDC+FCTCCTCCTCGTC4TCCF+CTCCTD \$P\$\$P\$C\$TARTCSTACTC4TAQ=C9TE9TC9T=4++4F=CTAATFCTTCCTDCTCCTAATAATT-4T-4T-4T 的复数的复数的变形的 一点的一位的第三的不是的全区外下区区下来的东区的一些外下的五工区的东西的工艺的一些的一种,这种产品的一个区域中的工程的一种 巴萨森的萨森州萨尼巴,巴巴萨州巴丁森及萨森巴萨巴西斯州巴萨西巴斯森巴斯地名美国西苏州南部西非洲巴西巴西西西州巴萨巴约地西巴斯西巴斯西巴斯西 我更与在尼亚巴巴丁的特丁的日本约将在特点一片的在场面中的面上与各一部面下一点下报者上午的前的一丁巴二丁的特生的点点在它一约尼亚技术学校的一个 这个长线里是几户外多个层位,一口工程的工程与一致设置是约一的设置是约一定是有多位等的是不可靠不可靠的工作的不是约束的 医医线三角分子法的 医毒物医毒物 A T M O T M O P C A T M O T M O T M C T M C T M O P C O T M O T M O T M O C T M C T M C T M C C T C C T M C T M O 巴里森林里尼森工作作工作科学中科学院科学区科学区科学区科学区科学区学学院 "一定孩子已在学艺术学校学生科学系科学系统学系统学系统学学校学院 のておらてといんとり、EMTHのTECFCATのりてもりてもりてもりてもりてもりていても、「おりてりりてじるFA9~でりFMDTADIA 机炉的特殊的自然合物 "在我,约在我们的原则,我们也在包括的我们的农村,我们也不不是有一个人的人,也不是一个人的人的人,也是一个人的人,我们也不是一个人,我们就是一个人的人,我们就是一个人的人,我们就 4.丁林りてECTのらてひにてるHTDCTのHTEWTの日1FWTのりてHCTFATHCTFWTO - 中央もてののてもりてもりてもりずらりませ 作家在外面的外面,以外现现家已经有的特殊电话和在对方是现在在心室是特别的现代不是它家有自然是对于实现,也没有完全,不是现在已经是是国家的种类的观点。 974050107697607407407407407407640-696490-69690-68740569769769769740764706640-697-076976 8 HT 4 4 DH + H C + D + T R C + D + F D D + D C F D C F D A + D A F D C F D Y F D C F AMTH TAATA TECTADICATRETACTAATANTDAIDITENTAHT DCTARTORTARTORT—RTARTORTAR—MTCCTTORT—RTART—RTORTARTORTARTCHT - ロリーのネーリのにりもてのり + のりにつり + のりてのりてのりてのまての 4 からまてり 4 そののどうの - のうてのらーのもてのいどういま 0 MTCSTERTA TOMTCATHUTOMTHATMATAATAHTOATOHTCSTA CATHAT 用于战场下场场下的场子已场下去的私们场景点的家庭场家的场子们的下门 ——站的家场有下门设在场际的时间 -TCCTA--HATHCTCDTAATAAF -- CFO-FOAFDA-KA-DC-DG-TOCECHIACTOATOATA ATHATCATABTEATCAT • 1

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125	RCDDCC44CDC404C4C4C4C4C4CADDADCRDDC444C00A4C4DCA4A CD444A4AC994C44CC4C4C4CFFFTFFFFFFFFFFFFFFFFFFFFF	1 A A 9 D
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128	- A D C D R D A = A D D A = D C A C A C A C A C D D D B C C C D 4 B B B C D D B D D B D P B B D D	7 7 7 7 1
129	- H U N D D D H C A D C A H D D A C A C A C B D D D H C C C C B A R D C A D D D A R D B B B B B B B B B B B B B B B B B B	, 4 0 8 0 , T F T F
130		30000
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131	AANACCOCCANDCHNCODDO C CFT TTTTFTFTFTIPIPI TF#TTTTFTT#TFT#TFT#TTT#TANDH49HECCANDAH#ACADCEC	BCCA
145	-CHODA AD COCANNA A CACACODA A CHODA 94 D CUONNO 8 D RDA 4 A A D HA C COCHDH CACACAD A DODO COCF FFFT FFFT FFFT FT FT T FT T FT FF FF F	T F T T
173	COMBRES DECEMBACE ADAMENTO CET TITETEE TITETEE	1 1 5
134	TPFTTTT-TFFTTFTTFTT-T-HACDCCCAACADAHBCECDAHDG CCBAHCHACHCADHACDDDHRCDPDRCHDCCCCACCCDDADADACA DAHRCDRAHCHDCAHDCBHAHCAACTTPFFTTFFTFFTFTFTTFTTFT	
135	TTTTFTTFFTFFTTFFTTTFTTCDDDMHCDDARACD80098940U9C	BACO
	A C N N C C 9 D 9 C 9 D N C N D A D D N D C C A 9 F T F F T T T T F T F T T F T T F T T F	) D E B C
176	TETTETTETTETTETTTADEFCERCCADEDBAECODCC	D H E H E
137	A CHODORCA H CA HOA A RACA CO HOHH C COH B HOC COH CA BOUCH T	* * * * * *
138	A D R R C C C C C D D A C D A D D A C C C C D A A F C C C D C A R C E C C A A E P C C C D C A R C E C C A A E P C A A E P C A C D C C D A	TTFT
139		9 8 6 - 0
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140	AD RO MAND AD RONNERS AND CACE BAD MCRED DC COACD UP O D CONDAD CHAO D AD MRCC BAR BOARD DC AD ADD CACE F F F T F T F T F T F T F T F T F T F
141	BCCDBDBAADCABDACCACBADAABBCDDBDACACDBDCACCBBABCDC ABBDCCAAADADAC DDBBDCACOCFF TTTFT F TTFTT T
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143	B C R A H C S A A D C A D B À A B À C B C O O C H B H D À C H O D C D D B O O B D A A C B C H À C D
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144	BABDADBCCDCABDAACACARDDDHHCCDADRDAADDDDRROBDADHMCUD BDBHACBCDCBDHCHCCCAODOCACFTFTTTT FTTFT TTFTTFTT
145	1 F F T T F T F F = F = T F F = - T T T T A M C C C A E E C C M E A C A F E C M F C L D D D M A A D D D D C = C D C A D D D A C A B A H D D D D C C C D D M M D C A D C C M C R = A = A M A D D
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144	BDBDBCBACDCARDACCARMCDDDHCDDDGCCCCARBBABDCCCBABADD ACBBCCBCBCBCCDDDDADDCCCFTF TTT TTTTFTTFT
147	TF TTT TFF T T FTT4 A A CCAED A
1-7	A C B B A D B C D C A D B B D D D B D A D D C A B F T T T T T F F F F F F T T F T T F T T T T T T T T T F T T T T T T T F T F T F T
146	TE TITT TEETE TE TI E TACHDOCCOCCAA DROCCDOCEDACDOCAAB - DADDOC 8 C 8 B D C A RAC RODA A ROTD A A C C C C D D 9 D D - D 4 P D D H D C D 4
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149	САВ О О А В О А В С В В А О А О А В А В О О О В С О О В В В О С О В В А О В О В С О В В В О В О В В О В О В В О В О
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150	В Л В А В В С Н С В В Л А Л С А С А Ч П Р Л Л С С С П В С В С С С П Л А Л Ч А Ч Н А А Н Ч А И Н П Л В В А Д Р В В В В В В В В В В В В В В В В В В
151	Т Т F Т Т А А А Е С А А Е А С А О Е А О НА В А НОВА О О Я А О С А В О О А С С С А С О Я О Я С И С О Я Я Я О С А О Н С А Я О Я А И А Я А О О
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152	<u>АСВСВСОВАВСАНВААААСОНАСРИСИСНАОСОСАОСССАССЧАЯСНАВО</u>
	TE T FETFFFFFTTT T DANACCCARDDOOD EDANEHAADA
153	-DBD==B-CBHA-AHAMDDDACRDD=-HD-CCMADM-ADAHARC AARB BRCCADACDH A DDCDA TFTFTTTFFTFTTFTFTFTFTFTFTFTF
154	TFFT TTFTTFF AFEAACCFFFAAAAACCECEACCOA4AA BABDDCAACBCADBAADCCCCANCAHCD-9CBDCCHDDCOAADCHCCD
•	DCBBH BOBOBC HHDANAAO CADTETETTTTEFFTETTTTFTTFTTFTFTFT TYETTTTFFFFFFFF TETFFTA H ERCCAREABAACCADHEEADADA
145	сввороя ососсвоя 4 сорасора 9 ссор 9 сяра аливанал соннаво
	TF F T TFFF FTF FTFF FACEACACCECCOMONICCCOODFORENA
156	C D C A B D C B C B C A C B D C A C C C A C D D D B C C C A A B D D A D D A D D A C B C B U C B U D A B B C C B D C C A D A B D A A D B D D D C D F T T T F T T F F F T F T F T F T F T
157	F TTT TF TF T ТРТАСССОССЯСЕАВАЛАЧСЕ ОНА СПАСНА СССОВАВЛАЛОСЛОВСЯСАСАСАСО ОНАСОСЛОВНО ОПОЧТО В ОТИННАТО П
-	A A B B C C B D H C B D H C D D A D D D D D D C D C F T F T T T T F F F T F T T F T T F T
198	ACCABARDAD CABBAAD C CRCONNAC C 0 0 9 9 9 4 C C C D C D A 4 D 4 D 7 9 4 4 A 0 D A 0,8 D B A B A B 2 9 B B B A D A D 9 D 9 D D A C T T F F T T T T T F T F F F T F F T T F
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159	R A C D D D R A A A C A 9 D A A C A C A C A C D D D A C C D D B C B D D D C B D B D B C B R D C C D D C D B D D C C C T T T T F F F F F T T F T T T T F F F F T T F T T T T F F F F T T F T T T T F F F F T T F T T F T T T T F F F F T T F T T F T T T T F F F F T T F T T F T T T T F F F F T T F T F T T F T T T T F F F F T T F T T F T T T T F F F F T T F T T F T T T T F F F F T T F T F T T F T T T T F F F F T T F T T F T T F T T T T F F F F T T F T T F T T T T F F F F T T F F F F T T F T T F T T T F T T T T F F F F T T F F F F T T F T T F T T T T F F F F F T T F F F F T T F T T F T T T F F F F F T T F F F F T T F F F F T T F F F F T T F F F F T T F F F F T T F F F F T T F F F F F T T F F F F F T T F F F F F T T F F F F F T T F
140	TEFTYTY TEF T T TETAACA ACCCECOCOU CHEDDELHECH HOBOCOBOADCAHDDADACACODAHCCCDU 400 DAADCOARDRU 440 DDO
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142	COSOSA A D C S C S A D A A C D C A C D H D D C H S D A S C D C A D C D C C D A C D C C A H D D H S C C C C C S D S B D D D S A A D D C A H F T F F T T T T T T F T F F F F F F F F F F F F F F F F F F F F
163	TT TTTTTFFTTFTT T TTFFRAECBACCAMADDCAEDEAACUADBA COBOODDDCABAODCACDCOCOOBCCBD44BDCACCUDB9CHA44AAAO
•	ADBNCCBCACCDBACD BODDDCCHFTFTTT TETFTTFTTFTFFT T FTTTT T TFFTFTTF FTTHAEACHCECCCADDAAACDDFCHHODA

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186	COMANAMAADOAYDAACACCADDUMMCOAAMCDAAACMUCCDMMAAAAADO ACBRBCBDHCACCCADACOMDACCCTTPTTTTPFTFFTFTTFTTFTTFTT
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204	TTT-TTFFTFFTFTT-TFFFTT-TMCONACADCECDAAMAACDMCCDAFCA CHDBADCADCERAACCACADOOOCOHCOHCOCACACOACOACOACOACOACOACOACOACOACOACOAC
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96	h#.	15.	30. 31,	13.	35.	35.	37.
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27	\$1.	25		31			
28			52.	5.5			47
74	102	51.	51.	S # .	n s		
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11		7.4		22.	TA.		41
12	92		42	53.	17.	51.	41
13		aΛ	45	45	40.	49.	
144	54.		20	26.	10.		
135			50.	52.	48.	42.	52
136	100	53.	10	5/1	uR.		47
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138	A2.	39.	47.	47.	35.	***	•
139	60.	31.	29,	40.	20.	53.	27.
140	77.	40.	37.	42.	15	3A.	10.
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101	53.	28	25.	34.	14.	٠.	٠٠.
102	61.	15.	24.	22.	41.	32.	ξ1.
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103	77.	• • •		47.	40.	44	41.
144	A7.	a٦.	40.	47.	40.	4^.	4
145	96.	46.	54.	51.	45.	47.	.0.
	76.	39.	37.	49.	27.	47.	34.
146	/h.	34.	3'.			***	
107	A9.	01.	44.	12.	47.	44	45.
148	64.	35.	31.	34.	32.	50.	42.
		43.	45.	49.	19	45.	33.
149	A.A.	45.	4			•••	
150	65.	30	35	47.	18.	30	26.
151	95.	48	47.	53.	42.	51	44.
	77.		3.4	20	37.	29	37.
155	54.	24	5-	· · ·	٠/.	٠٠.	***
153	51	29.	32.	>A.	ч.	34.	25.
154	64.	35.	33.	29.	30.	33.	35.
		44	41.	98.	19.	49	3ª.
155	A7.	46.	41.	90.	**.	44.	,
156	74.	32.	42.	£0.	30.	34	19.
157	0.0	50.	40	< 2.	47.	50.	49.
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158	7.	39	30.	45.	٠,,	47.	***
159	92.	45	47.	53.	19.	40.	
140	104	51	55.	51.	54.	52.	54.
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151	84	43.	41	85.	a1.	40.	٠,٠
145	60.	24.	36.	32.	13	32.	31.
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163	AA.	4.	44.	۵,۰	٠.	41.	• • •
144	101.	51.	50	56.	45	50.	47.
145	90	47.	52.	56.	48.	18	51.
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166	75.	36	٠٠.	~~.		• • • •	•
147	77	43.	3.0	4.5	19.	42.	35.
148	100.	47.	51	E //	714	51.	47.
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169	AA.	49.	30	59.	٠٠.	40.	
170		an.	30	20	ξ0.	40.	55.
171	105	40	54.	59	40.	51.	
171		40.	70.	~**		7'.	
172	72	35.	37.	3.6	٦.	un,	32.
173	40	40.	97.	48.	4 8	52.	an.
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174	//·	37.	ar.	3.	٠,٠	,,,	· · ·
175	99.	47.	52.	٢2.	n7.	48.	51
176	94	51.	41	50.	04.		47.
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177	91	41	50.	51.	, o.e.	· · · ·	
178	74.	10.	30	10	10	٠٠.	tA.
179	103.	52.	51.	5.A	75.		45.
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140	6ª.	35.	31	υ.	34.	54.	<i>,</i>
181	64	30.	38.	ta.	30.	54	31.
145	71.	3<	34.	00.	41.	ín.	12
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143	44.	21.	22.	>>.	24.	24.	<i>,</i> ~.
184	53.	21.	34	29	24.	2.8	25
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185	69.	,,,	54.	٠.,		,-,	
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147	90	44.	a.e.	51.	43.	51.	at.
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188	8.	45.	41.	24.	e0.		a
149	104	44.	54.	56.	51.	51	44
100	74	35	an.	18.	37.	10	ĮA,
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191	60.	,··.	•••		~~.	٠٠٠.	***
192	70	34.	34.	42.	32.	an.	34.
123	9>	44		05.	27.	48.	44.
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194	42	30.	41.	75.	44.	91.	41.
195	7.6	34.	un.	38.	34.	٦٥.	47.
196	67.	37.	50.	10.	2A.	42.	25.
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197	95	44.	47	47.	48.	4	97.
198	חז	15.	15	^,	24.	4 ·	**
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144	21.	• • •	***				21.
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213	87.	02.	45	51.	34.	45	42.
204	85	43.	42	50.	15	٠٠.	40
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207	54.	31.	źA.	30.	24	20.	20.
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208	64.	33.	33.	27.	19.	14	30.
209	70.	15	34	38.	37.	47	44.
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210	100.	uA.	55.	57.	47.	49.	55
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212	55.	30.	25.	31.	24.	32.	23.
213	91.	49.	42.	47.	nu.	46.	45.
214	53.	24.	45.	45.	21.	30.	31.
215	A5.	40.	45.	50.	35.	43.	42.
216	74.	34.	34.	51.	23.	40.	50.
217	90	43.	54.	51.	48.	54.	45
218	42.	34.	40.	42.	30.	42.	40.
219	47	30.	un.	13.	40.	9.1	42.
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221	100.		54.	46.	ua.	50.	50

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,	\$7.00	1.00	18.00	
	54.00	2.00	50.00	
10	50.00	1.00	21.00	
11	-0-00	4.00	27.00	
12	~1.00	1.00	30.00	
11		1.00	\$1.00	
14	68.00	3.00	37.70	
15	n"."0	4.00	39.00	
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1 4	h7.00	4.00	45.00	
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21	77,77	****	71.00	
52	71.00	5.00	77.00	
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52	74.40		00,00	
54	75.00	4.00	97.00	
27	74.50	0.00	103.00	
5*	77.00	9.00	117.00	
50	74,00	4.00	114.00	
30	79.00	2.00	*14.00	
31	80.00	5.00	120.00	
3>	81.00	3.00	123.00	
37	A7.00	4.00	,54.06	
31	A 1 . 00	5.00	132.00	
35	80.00	3.00	135.00	
36	85.00	6.00	141.00	
37	86.00	5.00	444.00	
3.0	87.00	A. 0 n	150.00	
30	H	6.20	****	
40	A0.00	4.00	160.00	
41	90.00	3.00	, 44.00	
42	91.00	2.00	160.00	
43	92.00	3.00	172.09	
40	90.00	7.00	170.00	
45	95.00	4.00	183.00	
44	96.00	0.00		
47	97.00	1.00	190.00	
4.8	98.00	3.00	191.00	
go	90.00	7.00	200.00	
50	100.00	4.00	204.00	
51	101.00	1.00	205.00	
52	102.00	2.00	207.00	
53	.04.00	3.20	210.00	
54	100.00	3.00	213.00	
55	106.00	1.00	210.00	
54	104.00	4.00	214.00	
57	111.00	2.00	220.00 221.00	

## AMALYSTS OF VANTANCE TARLE

SQUECE OF	ESEEUUN EIN UE BUNYSES	DECERES OF	EDBUH WERMERITERFE AVBIVALE BULLI	
EXAMINER	373.URR2	220.	1.5150	7,9025
****	1714,1523	149.	11,5044	60.65*2
DEMETHOED	6217,0195	12780.	0.1897	

١.				
	SPITT HAIVE DELTS	ATI, TTY		
	Upp-tate, shilt	0.8084		
	RANDOM HATE SPLTT	0.5842		
	FTRRT-SECTION HALF	0.7770		
۰.	SPEARKAY HRONN WHOL	T TERT PHI I SHTLT IY		
	ODD-FAEN ZIN IL			
	HANDON HALF BOLTT	1.804N 1.7375		
	FTRRT-SECTION HALF	0.4745		
٠.	SINT OUT FURNING TO UR DEL	TARTLTTV		
	OPD-EVEN SPI IT	0.4907		
	WARRIS MALE SPLTT	9.7281		
	EIDSI-SELUND HAIF	0.8740		
٥,	EL THETA ELIDHINE UT I	FLTARTI ITY		
	JUD-ENFW SBILL	0.8907		
	TAJOR AIRH HE SPLTT	0.7281		
		0.8740		
	ETHEL-SECURU HAI E			
	ELBEL-deCuro HM E			***************************************
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RF RF	(, TARII ITY RY MNTAFO :	NORT CHT METHON	n.A749	······································
PF RF	i, tarii ity av mntafe ; Ltarii ity av ka-20 f I jo for, kasen ny 2	LE MAE SWD 314 1 TE	Λ.Α749 Ο.α9Α3	
RF RF KR-	(, TARILITY RY MITRER ; (, TARILITY RY MR-27 F, 130 FRM, MAREN NY ) MEP ENDW MREW-29 FIN	SMCRT CUT METMON SPHILE TE MAG SND 277 LAG	n_A7a9 o_⇒>A₹ o_Anne	
RF RF KR-	i, tarii i ty ry mntafo ; i, tarii i ty ry ra-zo f i zo foru, rasen ny z rep enum rese-zo foi i arii [ i zu ru-zi sen	SMCRT CUT METMON SPHILE TE MAG SND 277 LAG	0.4744 0.4744 0.4746 0.4404	
RF RF	LIARTHITY NY MATRE : LIARTHITY NY MA-20 F. 120 FROW, MASEN ON 2 HEF FROW TREE-20 FROM 14NTLITYNY WO-21 FROM MASEN CORE 41,DMA	NHERT CUT METHOD TOMILS TE MAG AND 277 LAG	↑, #744 ), •97% ↑, #46 ↑, #46 ↑, #46 ↑, #46 ↑, #46	
RF RF KANT ANT I OW	LTARILITY RY MOTAFO:  LTARILITY HY KR-20 F.  120 FORM, RASED ON P.  HER FORM OFFE-20 FOR  HART COFF 11.PM  RE MOINT FOR 11.PM  RE MOINT FOR 11.PM	NHERT CUT METHOD TOMILS TE MAG AND 277 LAG	0.4749 0.974% 0.4866 0.4869 0.4709	
RF KR+ ANT I OW	LIARTHITY NY MATRE : LIARTHITY NY MA-20 F. 120 FROW, MASEN ON 2 HEF FROW TREE-20 FROM 14NTLITYNY WO-21 FROM MASEN CORE 41,DMA	NUCPT CUT METUDO TOMULA TE MAR AND 277 LAR M.	↑, #744 ), •97% ↑, #46 ↑, #46 ↑, #46 ↑, #46 ↑, #46	
RF RF-	Liantity ay motafe : Liantity hy wa-20 F 120 Form wasen on 2 Hep som mee-20 Form Mark core alema Fe anima estimat e n weak core alema	NUCPT CUT METUDO TOMULA TE MAR AND 277 LAR M.	0,8749 0,978 0,8408 0,8409 0,8709 0,8708	
RF RFANTING	Liantity ay motafe : Liantity hy wa-20 F 120 Form wasen on 2 Hep som mee-20 Form Mark core alema Fe anima estimat e n weak core alema	NHERT CUT METHON TO MILE TE MEE AND 277 LAG **  E EYAM BELLAMILITY TEMECY	0,8749 0,978 0,8408 0,8409 0,8709 0,8708	

.....

ON, NO TEMPORTURE WEAR ANTERTY PARTITITY DISCRIMATION WANTAMET
NO PRESSION TARES

1	100.0000	14.651R	0.5920	0.201300	7,249135	
,	100.0000	TO. JTRO	1. 1075		TPARTS.0	
	100.0070	56.5744	1.6784	1,15501	1.217412	
	100.0000	19,8507	0.4724	1.271146	n_2/19585	
	100,0000	18,5117	0.451	A. THOREA	1.200521	
	100.000	27.5456	4. 4475	4.129114	0.218454	
7	100.0000	51.0134	0.6525	1.057627	2.237714	
	100,0000	25.5432	1220	1.101695	0.214749	
•	100.0000	45.0317	1,412;	7.10045	0.248152	
10	100.0000	28,4794	1720		1.229AA#	
11	100.0000	42.01A1	7/16	1,140,701	1.172560	
12	100.0000	74.3420	0.525/	^.4/7945	1.246152	
13	100.0000	44.941	0.8220	222239	0.139341	
10	100.0000	54.3520	1.4610	0.201100	1.219452	
14	100.0000	19.7212	1.2427	-0.050007	1,189195	
ÎÀ	100,000	68.7017	1.444	1.2KF17h	0.130177	
17	100.0000	14.7040	0.421	1 8 10 475	0.2477.13	
1.6	100.000	52,5111	0.6102	1.445474	2321#2	
10	100.0000	A4 QA10	/171	4.355032	0.162150	
20	100.000	51.7717	0.0017	1 2441 4	1,232145	
21	100.0000	13.0745	15.25	-1-7797	1,119191	
22	100.0000	72.9501	47.7	4.256217	1,005007	
23	100,000	E9.7602	0.4574	1,220410	101507	
50	100,0000	15.2762	1.4240	1,145085	1.217242	
Şc	100.0000	15.4200	0.1949	1.126471	1.144734	
24	100.0000	17 6878	0.5942	1.335085	1.202093	
27	100.0000	48.4561	1.6344	0.194971		
54	100.0000	14.1357	0.4015	1.11625	1.249135	
50		41.4891	0.7427	1.203320	179751	
30	100,000	54.5349	1,144	1 22811	0.211257	
31	100.0000	13.0014	1.4407	177576	0.218493	
32	100.0000	53,55A5	0.0017	0.550322	7.27055	
11	100.0000	56,1900	1 4 5 7 5	V. 155021	1,214758	
30	100.0000	25.2727	0.5504	-1.014989	1.244126	
35	100.0000	21.4727	1.4153	1,22110	0.248152	
14	100.0000	44.1163	1.7542	155912	0.164820	
37	100.0000	20.2011	0.4400	0.171495	1,230248	
3.4	100.0000	56.1503	0.5743	0.598474	0.247733	
10	100,000	11.0095	1,3720	1 111405	A. 284484	
40	100.0000	44.1944	4591	A E. 12273	1.249545	
9.1	100,000	42.4210	2.5007	0.122014	0.229684	
22	100.0000	18.0151	. 5474	1 525524	0.241730	
43	100,0000	16.2080	0.9831	1.121720	0.204026	
44	100,0000	03.0000	A. 5A7A	1.118604	1,208848	
45	100.0000	10.4507	0.1525	MORFE A.	9.117319	
46	100.0000	10.7447	0.5250	A. 118043	0.249872	
47	100.0000	40.4974	0.7110	^ 1/2001	0.101397	
4.8	100,0000	07.45 AD	0.5762	0.3050#5	0.242215	
49	100.000	41.4432	0.4840	42 1844 0	0.182306	
60	100.0000	70 4 200	A 8305	0.305085	0.110645	
51	100.0000	57.1121	0.7030	0.122014	0.204455	
52	100.0000	27.2304	0.3640	111444	1.222723	
53	100,0000	77.0000	0.0744	0.040447	0.026412	
54	100.0000	57.4710	0.6040	1.271144	0.207412	
55	100.0000	24 0045	1.5763	0.237288	0.214152	
54	100.0000	****	n_h271	n cn#475	0.242315	

						•
57	100.0000	70.9050	0.8475	1,15566	0.100326	
58 50	100.0000	47.1357 34.7692	0.5474	0,427119 0,169491	0.246801	
60	100.0000	7588.0A	0.7712	0.389830	0.108234	
61	100.0000	42.2805	0.4915	0.338983	0.249472	
62	100.0000	45.7330	0.7797	0.203390	0.148234	
63	100.0000	50.3122	0.6102	7.070576	0.238693	
64	100.000	16.0271	9.547	0.401017	9.24RP4R	
65	100.0000	71.6763 59.8869	0.2288	^.~~~### ^.%??###	0.19579K	
64 67	100.0000	29.4460	0.3414	0.57044	0.17744	
64	100.0000	14.8416	0.2288	-0.014949	0.153024	
60	100.0000	*0.5*0E	2524.0	0.427119	1.201439	
70	100.0000	19.9864	1.2881	A. 305085	0.177515	
71	100.0000	41.0414	1.7288	0.508475	0.195494	
77	100.0000	50.A280	0.5763	1.574271	7.239435	
73	100.0000	51.470A	0.5932	0.404780	0.235422	
74 75	100.0000	78.4507 53.1041	0.6271	1,491525 1,135593	0.22120# 0.222723	
76	100.0000	46.9005	1.5763	0.201190	0.243730	
77	100.0000	75 A733	9.3475	-0.050827	0.221202	
78	100.0000	16.2470	0.4122	-0.014009	0.208152	
70	100.0000	24.9724	0.3640	-0.152502	1.214652	
80	100.0000	64.0543	0.8051	0.322034	0.167441	
81 82	100.0000	45.7195 70.8180	0.7481	0.023720	0.15945 <i>F</i> 0.14052A	
ÃÝ	100.0000	27.0407	1.3720	1.1 (5505 1.25728A	0.219452	
84	100.0000	44.0224	0.8220	0.288116	0.148256	
85	100,0000	14.7697	0.4574	A-01780B	0.215495	
86	100.0000	23.9964	0.1220	0.031894	0.209455	
87	100.0000	A5.1403	1.7797	1,15503	1.151101	
AA	100.0000	40.3575	0.7288	0.372861	0.195496	
âu êe	100.000	F0.9593 72.2036	0.6864	0.30830	0.191397	
91	100.0000	42.4794	1.7263	0.201300 0.421720	A0F5*1.0	
92	100.0000	4.8190	0.0763	-0.152542	0.047157	
91	100,0000	₹.000€	9.9592	-0.014000	440050.0	
94	100.0000	78.2570	9.9431	^ , ^ 5 TROR	0.00B098	
96	100.0000	72.2180	0.4559	0.220310	0.000.58	
94 37	100.0000	74,9012	0.9744	-1.01A989 0.18A481	0.04729A 0.089A3A	
9.4	100.0000	51.0724	0.6354	0.186481	0.213169	
90	100-0000	59,9050	0.72AR	0.101695	0.189185	
100	100,0000	41.8010	0.3814	4.559322	0.230953	
101	100.0000	70.9121	0.8898	100441.0	0.103806	
105	100.0000	18.6200	0.5032	0.574271	0.245081	
101	120.0000	07.746A 57.606A	0.5597	^, ZOSOAS ^, 288136	0.242991	
105	100.0004	17.5704	0.6564	0.0	0.172560	
106	100,000	73.5249	0.9574	4.450887	0.067157	
107	100.0000	50.1474	0.5847	4.4744	0.240534	
108	100.0000	12.5100	0.4153	1575#2	0.242215	
.00	100.0000	4.314#	0.0847	-0.135503	0.059335	
111	100.0000	12.3080	0.7881	1. TROR \$0	0.177515	
112	100.0000	17.8597	0.5847	0.24#136	0.243730	
111	100,0000	AR 108A	0.6356	0.118600	7.254955	
. 14	100.0000	10.4552	0,4130	-0.080746	0.249954	
115	100.0000	49.0437	1.8475	0.271186	0.123*30	
114	100.0000	50.4751	0.6017	1,091525	0.219435	
117	100.0000	12.6125 52.6478	1,5258	0.0067#0 0.22033Q	n.209272 n.228174	
118	100.0000	11,3017	0.6864 0.4831	1.050847	7.22293 7.22293	
120	100.0000	15.1186	0.1941	1.186001	0.130177	
121	100.0000	27,6064	0.3890	0.271186	0.221208	
127	100.0000	TQ. 8050	0.5000	1,221310	0.249872	
154	100.2000	64.1267	1,7797	0.169491	0.150454	
124	100.0000	84.4298 12.2489	0.6017	0.250217 1.322014	0.247743 0.236686	
126	100.000	19.1455	0.2288	0.248136	0.172560	
127	100.000	23.2805	0,3220	0.446478	0.193567	
WA	100.0000	27.4027	0 1114	OFRORF A	0.216416	

149	100.0000	13.6190	0.4007		
130	100,0000	17.7195		1,101695	1,242042
131	100,000		9.5169	0.118444	7.248838
132		20.3575	7.2293	^_031808	0.18014E
	100.0000	14.0431	n.39Pl	0.02770	1,214424
133	100.0000	<b>43.4968</b>	0.3729	7, 207300	1,241794
150	100.0000	14,1086	0.1356	0.033808	
135	100.0000	15.0045	2.1695	1,135604	1.185320
134	100,0000	13.4062	0.1610		0.1/A244
137	100,000	19.34Ra	0.4064	0.118644	0.119101
138	100,0000	17,4545	7.4915	1.477KP1	11.279641
130	100.0000	24,9255		^. a / a < 7 h	0.249050
190	100.0000	14.9231	0.2797	0.372034	7.201412
141	100,0000		0,2171	1.155504	0.162150
142		12.9638	0.4153	^. <b>%</b> >>> %	0.237710
	100.0000	₹3.0072	0.5814	0.322034	9,240534
143	100.0000	20.5775	A. BAGR	0.040674	0.240546
* 4 4	100.1000	24.4077	0.3051	0. 172881	0.211257
145	100.0000	23.4050	0.4237	0.404780	9.249536
146	100.0000	12.2217	0.1610	0.118604	
. 47	100,0000	20.3tam	0.3220		0.127020
145	100.0000	21.4371	0.2712	0,160001	0.1*4440
180	100.0000	25,8145		0.271196	0.180185
150	100.0000	11.6063	0.3105	0.254237	0.21301a
	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.1860	^.2013an	0.114002

DERIVED SCORE TARLE

8.NA.	MARKS	ZACORF	T-SCORE	AGCT-SCOPE	CEFB-SCO
1	111.	2,13	71,31	142.62	713,12
	110.	2.06	70.65	141.29	704.47
	110.	2.06	70.65	141.29	706.47
	106.	1.40	67.99	135.98	679.88
	104.	1.80	67.99	135.08	679.AA
6	104.	1.40	67.99	135.08	679.AB
	104.	1.40	67.99	135.94	A79,88
	105.	1.73	67.32	134.65	473.24
	104.	1.47	66.66	131.12	464.49
	104.	1.47	66.46	131,12	464.59
	108.	1.47	64.46	137.12	464.50
	103.	1.40	65,99	131.00	459.94 459.94
	103.		65.00	131.00	459.94
	102.	1.53	65.33	130.46	653.30
16	107.	1.43	64.33	130.46	453.30
17	01.	1,47	64.66	129.13	646.45
18	100.		64.00	128.00	440.00
	100.	1.40	64.00	128.00	640.00
50	100.	4.40	64.40	124.00	440.00
	100.	1.40	64.00	454.00	A40.00
55	99.	1,13	67,34	124.67	633.36
53	90.	1.33	63.34	124.47	433.36
24 25	99.	1.33	63.34	126.67	633,36
24	94:	1.33	63.34	126.67	653,36 653,36
27	••;	1.33	63,34	126.47	633,36
58	99.	1,33	63,34	124,67	433,36
29	94.	1.27	62.67	125,34	626.71
30	98.	1.27	62.67	125.34	424.71
31	94.	1.27	62.47	124.14	426.71
35	97.	1.20	62.01	124.01	454.06
33	94.	1.13	61.14	122.48	613.42
34	96.	1.13	61.34	84,55!	A13.42
35	94.	1.13	61.34	127.65	413,42
36 37	94.	1.13	61.34	122.68	417.42
36	96.	1.13	61.34	122.48	413,42
39	94	.07	60.68	121.15	404.77
40	95	0.7	84.08	121.35	606.77
41	95.	1.07	60.68	121.35	406.77
42	95.	1.07	69.68	121,15	406.77
43	94.	1.00	67.01	120.02	400.12
44	94.	1.00	60.01	120.02	400.12
45	94.	1.00	60.01	120.02	400.12
46	94.	1.00	60.01	120.02	600.12
47	94,	1.00	60.01	120.02	600.12
48	94.	200	67.01	120.02	600.12 400.12
50	92.	0.47	58.68	117.37	584.83
51	97.	n . A 7	54,48	117.37	586.A3
52	97.	A . A 7	58.68	117.37	584.43
53	91.	4.40	54.02	116.04	580.1A
0 84	9.1.	0.80	58.02	114.04	580,18

45	90.	0.74			
4	90.	A.74	57.35 57.35	114.71	573,53 573,53
57	•••	4.74	57, 15	114.71	577.53
56	AO.	^_47	54.69	113.36	566.49
49	49	0.67	54,49	113.38	564. AQ
41	80	0.47 0.47	54.49	113,38	466.49
62	8.5	0.40	54.02	112.05	561.24
43		2.40	54.92	12.05	560.74
44		4.64	54.02	112.05	560,24
45	AA AA	2.40	54.02	112.05	560,24
47		0.40	54.02	112.05	560.24
48	. 7	0.54	58.36	110.72	552.50
49	87.	0.50	55.36	110.72	451.44
70	AT.	0.54	54.16	111.72	551.59
71	A7.	0.54	55.36	110.72	552,50
73		. 54	54. 16	110.72	451.49 451.49
74	87	0.54	55.36	*10.72	553,59
75	87.	0.47	54.16	110.72	451.44
76 77	AA.	^ - ^ 7	54.49	100.10	544.05
78		^ 07 ^ 17	50.49 50.49	100.10	584.95 584.95
79		^ - 07	54.49	109 30	544.95
80	84	0.67	54.69	400.10	544.05
# t			54 AZ	* 0 2 - 0 6	541.30
# 2 # 3	AS.	0.00	54.03 54.03	108.06	540.30
A 4	A5.	0.40	94.03	104.06	540.30 540.30
P 5	A.S	0.00	54.03	104.06	540.30
46	8.5	^.^^	50.03	* 08.06	540.30
A 7	A 4	^.00 ^.10 ^.10 ^.10 ^.10 ^.77 ^.27 ^.27	53.37	104.73	533.65
Ã	8 7		51,17	104.73	431,45 431,45
90		1.27	51,17 52,70	105.00	527.01
• 1		^ 27		105.00	527.01
• >		1.27	57.70	105.40	527.01
93	RT.		52.70	105.00	527.01 527.01
95	82	^ >^	52.70	105.00	520.36
94	82	٥٠ > ٥	52.00	104.77	524.36
97	87	0.20	52.00 52.00	100.07	450.46
9.0	A7.	2.70	52.04 51.37 51.37 51.37	102.70	524, 36 513,71
100		1.14	51 37	102.70	<11.71
101	A .		51.37	102.74	412.71
1,5		^. ^ 7	50.71	101.41	507.07
103	70.	2.27	50.71	101.11	507.07
105	70.	0.00	50.00 50.00	100.08	500.42
106		-1.16	49.18	100.08 92.75	491.77
107	7*.	-1.15	49.18		491.77
100		-^.^6	40, 14	98.75 98.75 97.43	091.77
110	7 A .	-7.13	4.71	97.75	047.13
111	77.	-^.13		97.03 97.03 97.03 97.03	087 . t t
112	77.	-n.13	44.71	97.03	487.14
113	77.	- 1 - 3	48.71	97.43	487.14
115		-0.13	48.71	97.01	087.16
116	77.	0.70 0.70 0.10 0.10 0.07 0.00 0.00 0.00	48.71		087.11
117	77.	3	48.71	97.43	487.45
118	77.	-0.13	45.71	97.43	487.13
120	76.	-0.20	48.05	94.10	080.42
121	74:	-0 20	uR.04	94. * 0	680.18
152	74.	>	0R.05	94.10	080 78
123	74.	-0.30	48.45	94.10	080.08
124	74.	-0.26	44.15	94 10	480.08 072.85
126	75.	-0.20	47.38	04 77	071.01
		- •- •			

127	75.	-^.24	47.34	94.77	473.83
128	75.	-0.74	47 LR	94.77	473.43
129		-1,26	47.18	94.77	573.A.
130	75.	-1.26		90.77	A73.83
131	15.	-0.26	47. 18	90.77	778.46
135	75.	-0.26	47. 3A	00.77	478.83
133	71.		46.77	90.77	
134	/1.	• • • • • • • • • • • • • • • • • • • •	44.75	91.14	067,19
1 14	77.		44.72	97.70	867.19
135	70.		44.72	93.00	167.19
136	77.	•****	44.72	91,14	467.14
137	7^.	-0.33	46.77	92.40	467.19
134	77. 77. 17. 13. 72.	-0.34	44.72	97.70	467.19
1 44	12.	-^.19	44.05	92.11	464.50
100	77.	-0.46	45.19	90.74	45t.49
1 * 1	72.	-^.//6	45.30	0^.7A	142.40
105	72.	•^.^^	05.20	91.7R	453.89
143	72.	-^.70	45.30	Q1.74	#52.4Q
144	77.	-0.96	45.19	91.75	252.40
145	71.	-0,53	41.77	80.45	417.25
146	71.	-^.53	41.72	49.75	947.25
107	74.	-0.63	46.72	89.45	147.25
148	74.	-^.51	44.72	89.05	447.25
149	71.		80.77	89 25	047,25
150	71.	-^.57	20.12	80,05	147.25
151	70.	- 50	40.00	84.15	846.60
150	74.		99 26	89 12	747.47
153	7^.	-4.59	HA CD	89 12	440.40
154	70.	-4.50	40.00		747.40
155	77.	-1.59	44. ^ ^		340.A0
156	72. 72. 71. 71. 71. 71. 71. 71. 71. 71. 71. 71	4 50	44.00		340.40
157	69.	-^ . An	43.40	AA TO	738.04
158	V.U.	-0.46	43.40	AA. 79	453.05
150	60.	-0.46	43.00	84.79	432.05
140	40.	-1.46	43.40	84.70 84.70 84.70 84.70	432.05
141	62.	-1.71		AR . NA	P77.21
152	4.8	. 7.4		A5.0A	827.31
163		-0.73		85.04	027.31
144	6ª. 6ª. 67.	- 73	42.73	R5.04	427 11
145		- 73	47.74	85.06	427.31
146	68	-0.73	42.73	A5.7A	
147	A7	-0.79	42.07	A1.13	44.45
148	67. 67.	-0.70	42.07	A 4 . 1 4	0.20 4-
169	67	-1 79	A2 A7	84.13	44 050
170	67.	-^ 79	02 07	80.13	120 44
171	66.	-0.86	41 40	A2.80	111.01
172	44	-0.00	41 40	A7.80	919.11
173	44	-0.84	01.00	82.80	410.01
174	44	-0.86	01.00	87.80	010.01
175		-0.86	41 40	83.80	414 41
176		-0.86	01.00	43.80	#1#.01 010.01
177	27.			43.40	414.41
178	44	-0.00	44 40	43.44	
179	**************************************	0.03	a2.07 a2.07 a2.07 a1.a0 a1.a0 a1.a0 a1.a0 a1.a0	R2 Rn R2 Rn R2 Rn R1 87 R1 87 R1 27 R1 27 R1 77 R1 10 R0 10 R0 10 R0 10	407.17 407.17
180		-0.03	40.74	91 97	407 77
181		-0.01	40.74	91 07	007 17
142		-0.01		81 07	207.37
183			40.74 40.78 40.78 40.78 40.77 40.07	01.07	007. 17 007. 17
184		-0.00	40.07	20.	200.72
185		-0.00	an. n7	20.10	700.72
146	7	-0.00	40.07		220.72
1.7	4.0		40.07		202.75
188		-1.04		30.01	100.07
189	63.	-1.00	30.01	74.81	194.07
100		• • • • • • • • • • • • • • • • • • • •	30.01	78.81 78.81	700.07
101			39.01	77.09	100.07
105	61.	-1.11	39.74		387.73
193	21.	-1.14	39.08	74.16	TAC.74
104		-1,19	3A,^B		380.74
	61.		AA.AF	74.16	
195	61.		37.41	74.83	
106	60.		17.71	70.43	174.12 174.13
185	60.			70.A3	4/7.13
4 8 4	h".	• 1.75	37.01	70 A 3	374.13

960	59.	-1.34	34.75	73.50	167.49
500	40	1 11	34.75	71.50	167.49
201	50.	-1.11	34.75	73.50	147.49
505	50.	. 10	34.08	72.17	360.81
203	52.	-1.10	34.08	12,17	160 A4
204	57.	-1.04	35,40	70.40	150.10
205	54.	-1,62	\$4.75	60,51	347.54
506	54.	-1.52	30.75	69.51	347.55
207	55.	-1.50	3/1,00	A. 18	\$46.30
208	55.	-1.50	(4.00	58.18	344.20
548	50.	-1.46	12.01	64.85	354.24
210	54.	-1,4-	22.42	44.85	131.24
211	41.	-1.72	32.76	45.52	127.61
2.5	41.	-1.72	12.76	44.47	127.41
213	53.	-1.72	12.75	65.52	127.41
214	51.	-1.72	12.74	44.52	327.41
215	51.	-1.5	41.45	40.96	214.21
216	51.	-1.86	31.04	42.94	317.31
217	51.		11.01	42.84	310.51
514	51.	-1.86	41.04	42.96	214.21
510	50.	-1.07	30.77	41.54	307.47
250	44.	-2.19	29.11	54.20	241.08
271	44.	-2.19	70.11	56.72	281.08